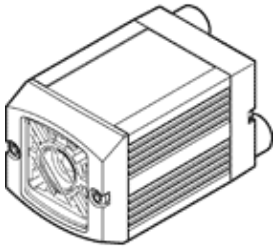


# compact vision system SBOI-Q-R1B

Part number: 541396

FESTO

Compact vision system with monochrome CMOS-sensor 1/2", Resolution 640\*480 Pixel, Ethernet interface 100 Mbit/s, integrated lens, white LED illumination, integrated CoDeSys PLC.



## Data sheet

| Feature                                    | Value   |
|--|---|
| Sensor resolution                          | 640 x 480 Pixel (VGA)   |
| Lens attachment                            | Built-in optical devices  |
| Field of vision                            | 14 x 10 mm - 520 x 390 mm   |
| Width                                      | 45 mm   |
| Height                                     | 45 mm   |
| Length                                     | 83.7 mm   |
| Inputs                                     | Input 1: trigger signal, Input 2: accept inputs   |
| Max. no. of different orientations         | 8 per part type   |
| Max. no. of test programs                  | 256   |
| Sorting function                           | Up to 16 types/test programs  |
| Outputs                                    | Output 1: operational, output 2 and output 3 can be parametrised: good part, reject part, correctly oriented, incorrectly oriented, external illumination |
| Max. residual current                      | 1.5 A on the 24 V outputs   |
| Nominal operating voltage DC               | 24 V  |
| Current consumption with load-free outputs | 120 mA  |
| Permissible voltage fluctuation            | +/- 10 %  |
| CE mark (see declaration of conformity)    | to EU directive for EMC   |
| Storage temperature                        | -10 ... 60 °C   |
| Protection class                           | IP65<br>IP67  |
| Ambient Conditions                         | Screening from extreme external light sources<br>Cleanest possible ambient air  |
| Ambient temperature                        | -10 ... 50 °C   |
| Authorisation                              | RCM Mark<br>c UL us - Recognized (OL)   |
| Product weight                             | 184 g   |
| Exposure time                              | 39 µs ... 1,000 ms  |
| Image rate (frame)                         | 150 fps   |
| Sensor type                                | monochrome  |
| Operating distance                         | 22 ... 1,000 mm   |
| Ethernet, data transmission speed          | 100 Mbit/s  |
| Ethernet, supported protocols              | TCP/IP, EasyIP, Telnet, ModbusTCP   |
| Ethernet, connector plug                   | Plug<br>M12   |
| Fieldbus interface, connection technology  | Plug<br>M12   |
| Ethernet, bus interface                    | IEEE802.3U (100BaseT)   |
| Fieldbus interface                         | CAN   |
| Fieldbus interface, supported protocols    | CP fieldbus   |
| Materials note                             | Free of copper and PTFE<br>Conforms to RoHS   |
| Materials information for cover            | ABS<br>glass fibre reinforced   |
| Materials information, housing             | Aluminium<br>Anodised   |